

We claim:

1. An aqueous synfuel composition for use as an additive to combustible materials to facilitate complete combustion, said aqueous composition comprising 1.0% weight of polyvinyl alcohol, 10.0 to 35% by weight of a hydrocarbon wax and the balance of water, wherein all weight percentages are based on the total weight of the composition.

2. An aqueous synfuel composition as claimed in claim 1 which is in the form of an emulsion.

3. An aqueous synfuel composition as claimed in claim 1 wherein the hydrocarbon wax is selected from the group consisting of paraffin wax, slack wax, microcrystalline wax, olefinic wax-like materials and mixtures thereof.

4. An aqueous synfuel composition as claimed in claim 1 which comprises 2 to 5% by weight of polyvinyl alcohol, 15 to 30% weight of a hydrocarbon wax, 0 to 0.5% of a biocide and the balance of water.

5. An aqueous synfuel composition as claimed in claim 4 which comprises 2 to 4.5% by weight of polyvinyl alcohol, 16 to 26% by weight of a hydrocarbon wax, 0 to 0.10% by weight of a biocide and the balance of water.

6. An aqueous composition as claimed in claim 5 which further comprises 1.0% to 10.0% by weight of one or more filler materials, based on the total weight of the composition.

7. The method of assisting complete combustion of a material, said method comprising the step of applying to the material, a film of aqueous composition which comprises 1.0 to 10.0% by weight of polyvinyl alcohol, 10.0 to 35.0% by weight of a hydrocarbon wax, and the balance of water, wherein all weight percentages are based on the total weight of the composition.

8. A method as claimed in claim 7 wherein said composition is in the form of an emulsion.

9. A method as claimed in claim 7 wherein said composition also includes 1.0 to 10.0 % by weight of a filler material, based on the total weight of the composition.

10. A method as claimed in claim 7 wherein said composition comprises 2 to 4.5% by weight of polyvinyl alcohol, 16 to 26% by weight of a hydrocarbon wax, 0 to 0.505 by weight of a biocide, and the balance of water.

11. A method as claimed in claim 7 wherein the composition is applied by means of spraying on the material.

12. A method as claimed in claim 7 wherein the material is coal.

13. A method as claimed in claim 7 wherein said method complies with the Federal

Air Quality Regulations.

14. The aqueous synfuel composition as in claim 1 and including a percentage of polyvinyl acetate in said composition.

15. The aqueous synfuel composition of claim 14 wherein said percentage of polyvinyl acetate is 10%.

16. The aqueous synfuel composition of claim 1 and including raw coal added to said composition.

17. The composition of claim 16 and including polyvinyl acetate.

18. The composition of claim 17 wherein the percentage of polyvinyl acetate is 10%.

19. The composition of claim 16 wherein the range of polyvinyl acetate is from 0% to 20%.

20. The composition of claim 16 wherein said coal is high density coal.

21. A synfuel composition for use as an additive to combustible materials to facilitate complete combustion, said composition including a hydrocarbon wax, a second wax and water.

22. A synfuel composition as in claim 21 and including titanium dioxide.

23. A synfuel composition as in claim 22 wherein the hydrocarbon wax is selected

from the group consisting of paraffin wax, slack wax, microcrystalline wax, olefinic wax-like materials and mixtures thereof.

24. A synfuel composition as in claim 221 where said hydrocarbon wax is paraffin wax with paraffin oil.
25. A composition as in claim 24 wherein the other wax is stearic acid.
26. A composition as in claim 21 and including ammonia.
27. A composition as in claim 21 and including 2.0% of the other wax.
28. A composition as in claim 21 and including 46% of paraffin wax.
29. A composition as in claim 21 and including 4.5% of titanium dioxide.
30. A synfuel composition for use as a combustible fuel additive to enhance complete combustion, said composition consisting of the following:

Slack Wax	46.3%
Other wax	2.0%
Ammonia	0.2%
Titanium Dioxide	4.5%
Water	47.0%

31. A composition as in claim 30 wherein said other wax is Stearic acid.
32. A composition as in claim 30 wherein said hydrocarbon wax is paraffin wax.
33. The method of assisting complete combustion of a material, said method comprising the step of applying to the material a composition which includes a hydrocarbon wax, a second wax, ammonia and water.
34. The method of claim 34 wherein said second wax is Stearic acid.
35. The method of claim 34 wherein said composition includes titanium dioxide.
36. The method of claim 34 and including a base for pH adjustment.
37. The method of claim 37 wherein said base is Potassium hydroxide.

39. The method of claim 37 wherein said base is Sodium hydroxide.
40. The method of claim 34 wherein the range of the wax is from one half of one percent to seventy percent by weight.
41. An additive for enhancing the combustion of coal, said additive comprising the following composition by weight.

Wax	½% to 70%
Base for ph adjustment	0.2%
Water	30% to 99%

42. An additive as in claim 41 and including titanium dioxide.
43. An additive as in claim 41 wherein said wax includes a paraffin wax.
44. An additive as in claim 41 wherein said wax includes stearic acid.